1

SEQUENZPROTOKOLL

<110> Deutsches Krebsforschungszentrum

<120> Fv-Antikörper-Konstrukte

<130> K 2839

<140> unbekannt

<150> DE 199 37 264.0
<151> 1999-08-06

<160> 11

<170> PatentIn Ver. 2.1

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<212> DNA
<213> Künstliche Sequenz

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<223> Beschreibung der künstlichen
      Sequenz: Expressionsvektor kodierend für zwei
      einzelkettige Fv-Antikörper-Konstrukte

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<222> (217)..(1002)

<220>
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atttcacaca gaattcatta agaggagaa attaaccatg aaatacctat tgcctacggc 180

agccgctggc ttgctgctgc tggcagctca gccgcc atg gcg cag gtg cag ctg   234
                                           Met Ala Gln Val Gln Leu
                                            1   5

cag cag tct gga gct gag ctg gta agg cct ggg act tca gtg aag ata   282
Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly Thr Ser Val Lys Ile
             10   15   20

tcc tgc aag gct tct ggc tac acc ttc act aac tac tgg cta ggt tgg   330
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Leu Gly Trp
         25   30   35

gta aaa cag agg cct gga cat gga ctc gag tgg att gga gat atc tac   378
Val Lys Gln Arg Pro Gly His Gly Leu Glu Trp Ile Gly Asp Ile Tyr
     40   45   50

cct gga ggt ggt tat act aac tac aat gag aaa ttc aag ggc aag gcc   426
Pro Gly Gly Gly Tyr Thr Asn Tyr Asn Glu Lys Phe Lys Gly Lys Ala
55   60   65   70

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aca gtg act gca gac aca tcc tcc aga act gcc tac gtg cag gtc agg   474
Thr Val Thr Ala Asp Thr Ser Ser Arg Thr Ala Tyr Val Gln Val Arg
            75                  80                  85

agc ctg aca tct gag gac tct gct gtc tat ttc tgt gca aga tcg gct   522
Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg Ser Ala
            90                  95                  100

agc tgg tac ttc gat gtc tgg ggc gca cgg act acg gtc acc gtc tcc   570
Ser Trp Tyr Phe Asp Val Trp Gly Ala Arg Thr Thr Val Thr Val Ser
            105                 110                 115

tca gcc aaa aca aca ccc aag ctt ggc ggt gat atc gag ctc act cag   618
Ser Ala Lys Thr Thr Pro Lys Leu Gly Gly Asp Ile Glu Leu Thr Gln
        120                 125                 130

tct cca aaa ttc atg tcc aca tca gta gga gac agg gtc aac gtc acc   666
Ser Pro Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Asn Val Thr
135                 140                 145                 150

tac aag gcc agt cag aat gtg ggt act aat gta gcc tgg ttt caa caa   714
Tyr Lys Ala Ser Gln Asn Val Gly Thr Asn Val Ala Trp Phe Gln Gln
                155                 160                 165

aaa cca ggg caa tct cct aaa gtt ctg att tac tcg gca tct tac cga   762
Lys Pro Gly Gln Ser Pro Lys Val Leu Ile Tyr Ser Ala Ser Tyr Arg
                170                 175                 180

tac agt gga gtc cct gat cgc ttc aca ggc agt gga tct gga aca gat   810
Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
            185                 190                 195

ttc act ctc acc atc agc aat gtg cag tct gaa gac ttg gca gag tat   858
Phe Thr Leu Thr Ile Ser Asn Val Gln Ser Glu Asp Leu Ala Glu Tyr
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ttc tgt cag caa tat cac acc tat cct ctc acg ttc gga ggg ggc acc   906
Phe Cys Gln Gln Tyr His Thr Tyr Pro Leu Thr Phe Gly Gly Gly Thr
215                 220                 225                 230

aag ctg gaa atc aaa cgg gct gat gct gcg gcc gct gga tcc gaa caa   954
Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Ala Ala Gly Ser Glu Gln
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Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser His His His His His His
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ggcttgctgc tgctggcagc tcagccggcc atggcggcc atg gcc cag gtg caa       1116
                                           Met Ala Gln Val Gln
                                                   265

ctg cag cag tca ggg gct gag ctg gct aga cct ggg gct tca gtg aag   1164
Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala Ser Val Lys
            270                 275                 280

atg tcc tgc aag gct tct ggc tac acc ttt act acc tac aca ata cac   1212
Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr Thr Ile His
285                 290                 295

tgg gta aga cag agg cct gga cac gat ctg gaa tgg att gga tac att   1260
Trp Val Arg Gln Arg Pro Gly His Asp Leu Glu Trp Ile Gly Tyr Ile
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Asn Pro Ser Ser Gly Tyr Ser Asp Tyr Asn Gln Asn Phe Lys Gly Lys
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acc aca ttg act gca gac aag tcc tcc aac aca gcc tac atg caa ctg    1356
Thr Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr Ala Tyr Met Gln Leu
            335             340             345

aac agc ctg aca tct gag gac tct gcg gtc tat tac tgt gca aga aga    1404
Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Arg
            350             355             360

gcg gac tat ggt aac tac gaa tat acc tgg ttt gct tac tgg ggc caa    1452
Ala Asp Tyr Gly Asn Tyr Glu Tyr Thr Trp Phe Ala Tyr Trp Gly Gln
            365             370             375

ggg acc acg gtc acc gtc tcc tca gcc aaa aca aca ccc aag ctt ggc    1500
Gly Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr Pro Lys Leu Gly
380             385             390             395

ggt gat atc cag gct gtt gtg act cag gaa tct gca ctc acc aca tca    1548
Gly Asp Ile Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser
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cct ggt gaa aca gtc aca ctc act tgt cgc tca aat act ggg act gtt    1596
Pro Gly Glu Thr Val Thr Leu Thr Cys Arg Ser Asn Thr Gly Thr Val
            415             420             425

aca act agt aac tat gcc aac tgg gtc caa gaa aaa cca gat cat tta    1644
Thr Thr Ser Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu
            430             435             440

ttc act ggt cta ata ggt cat acc aac aac cga gct cca ggt gtt cct    1692
Phe Thr Gly Leu Ile Gly His Thr Asn Asn Arg Ala Pro Gly Val Pro
            445             450             455

gcc aga ttc tca ggc tcc ctg att gga gac aag gct gcc ctc acc atc    1740
Ala Arg Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile
460             465             470             475

aca ggg gca cag act gag gat gag gca ata tat ttc tgt gct cta tgg    1788
Thr Gly Ala Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp
            480             485             490

tat aac aac cat tgg gtg ttc ggt gga gga acc aaa ctg act gtc cta    1836
Tyr Asn Asn His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
            495             500             505

ggc cag ccc aag tct gcg gcc gct gga tcc gaa caa aag ctg atc tca    1884
Gly Gln Pro Lys Ser Ala Ala Ala Gly Ser Glu Gln Lys Leu Ile Ser
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Glu Glu Asp Leu Asn Ser His His His His His His
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      Sequenz: Expressionsvektor kodierend für zwei
      einzelkettige Fv-Antikörper-Konstrukte

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1   5   10   15
Gly Thr Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
            20   25   30
Asn Tyr Trp Leu Gly Trp Val Lys Gln Arg Pro Gly His Gly Leu Glu
        35   40   45
Trp Ile Gly Asp Ile Tyr Pro Gly Gly Gly Tyr Thr Asn Tyr Asn Glu
    50   55   60
Lys Phe Lys Gly Lys Ala Thr Val Thr Ala Asp Thr Ser Ser Arg Thr
65   70   75   80
Ala Tyr Val Gln Val Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr
                85   90   95
Phe Cys Ala Arg Ser Ala Ser Trp Tyr Phe Asp Val Trp Gly Ala Arg
            100   105   110
Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr Pro Lys Leu Gly Gly
            115   120   125
Asp Ile Glu Leu Thr Gln Ser Pro Lys Phe Met Ser Thr Ser Val Gly
130   135   140
Asp Arg Val Asn Val Thr Tyr Lys Ala Ser Gln Asn Val Gly Thr Asn
145   150   155   160
Val Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Val Leu Ile
                165   170   175
Tyr Ser Ala Ser Tyr Arg Tyr Ser Gly Val Pro Asp Arg Phe Thr Gly
            180   185   190
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser
            195   200   205
Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr His Thr Tyr Pro Leu
210   215   220
Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
225   230   235   240
Ala Ala Gly Ser Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser
            245   250   255
His His His His His His
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<210> 3
<211> 273
<212> PRT
<213> Künstliche Sequenz
<223> Beschreibung der künstlichen
      Sequenz: Expressionsvektor kodierend für zwei
      einzelkettige Fv-Antikörper-Konstrukte

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             20                  25                  30
Thr Tyr Thr Ile His Trp Val Arg Gln Arg Pro Gly His Asp Leu Glu
         35                  40                  45
Trp Ile Gly Tyr Ile Asn Pro Ser Ser Gly Tyr Ser Asp Tyr Asn Gln
     50                  55                  60
Asn Phe Lys Gly Lys Thr Thr Leu Thr Ala Asp Lys Ser Ser Asn Thr
65                  70                  75                  80
Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr
             85                  90                  95
Tyr Cys Ala Arg Arg Ala Asp Tyr Gly Asn Tyr Glu Tyr Thr Trp Phe
         100                 105                 110
Ala Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Lys Thr
         115                 120                 125
Thr Pro Lys Leu Gly Gly Asp Ile Gln Ala Val Val Thr Gln Glu Ser
    130                 135                 140
Ala Leu Thr Thr Ser Pro Gly Glu Thr Val Thr Leu Thr Cys Arg Ser
145                 150                 155                 160
Asn Thr Gly Thr Val Thr Thr Ser Asn Tyr Ala Asn Trp Val Gln Glu
             165                 170                 175
Lys Pro Asp His Leu Phe Thr Gly Leu Ile Gly His Thr Asn Asn Arg
         180                 185                 190
Ala Pro Gly Val Pro Ala Arg Phe Ser Gly Ser Leu Ile Gly Asp Lys
         195                 200                 205
Ala Ala Leu Thr Ile Thr Gly Ala Gln Thr Glu Asp Glu Ala Ile Tyr
210                 215                 220
Phe Cys Ala Leu Trp Tyr Asn Asn His Trp Val Phe Gly Gly Gly Thr
225                 230                 235                 240
Lys Leu Thr Val Leu Gly Gln Pro Lys Ser Ala Ala Ala Gly Ser Glu
             245                 250                 255
Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Ser His His His His His
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His
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<213> Künstliche Sequenz

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<223> Beschreibung der künstlichen
     Sequenz: Primer

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<213> Künstliche Sequenz

<220>
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     Sequenz: Primer

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<213> Künstliche Sequenz

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<212> DNA
<213> Künstliche Sequenz

<220>
<223> Beschreibung der künstlichen
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<213> Künstliche Sequenz

<220>
<223> Beschreibung der künstlichen
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<210> 9
<211> 36
<212> DNA
<213> Künstliche Sequenz

<220>
<223> Beschreibung der künstlichen
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